	Application No.		
Notice of Allowability	09/972,741		
	Examiner	Art Unit	
	Celine X Qian	1636	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr GHTS. This application is	in this application. If not include munication will be mailed in due	led course. THIS
1. This communication is responsive to the amendment filed	on 12/10/03.		
2. The allowed claim(s) is/are <u>8-10,18,19,45 and 47</u> .			
3. \boxtimes The drawings filed on <u>20 February 2002</u> are accepted by the	ne Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the:	der 35 U.S.C. § 119(a)-(d) or (f).	
 Certified copies of the priority documents have 	been received.		
Certified copies of the priority documents have	been received in Applicat	tion No	
3. Copies of the certified copies of the priority documents have been received in this national stage application from the			
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:	•		
5. Acknowledgment is made of a claim for domestic priority un reference was included in the first sentence of the specification.	ition or in an Application D	Data Sheet. 37 CFR 1.78.	e a specific
(a) The translation of the foreign language provisional application has been received.			
6. Acknowledgment is made of a claim for domestic priority un in the first sentence of the specification or in an Application	Data Sheet. 37 CFR 1.78	3.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	this communication to file this application. THIS TH	a reply complying with the requ REE-MONTH PERIOD IS NOT	uirements noted EXTENDABLE
7. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			NOTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 		ew (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No			
(b) I including changes required by the proposed drawing correction filed, which has been approved by the Examiner.			
(c) ☐ including changes required by the attached Examiner's	Amendment / Comment	or in the Office action of Paper	No
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on ne margin according to 37 C	the drawings in the front (not the CFR 1.121(d).	e back) of
9. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT FOR T	sit of BIOLOGICAL MATHE DEPOSIT OF BIOLOG	TERIAL must be submitted.	Note the
Attachment(s)			
1 ☐ Notice of References Cited (PTO-892)	5∐ Notice of In	formal Patent Application (PTC)-152)
 2 Notice of Draftperson's Patent Drawing Review (PTO-948) 3 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No 	6∐ Interview S	ummary (PTO-413), Paper No.	
	'' /∐ Examiner's	Amendment/Comment	
4 Examiner's Comment Regarding Requirement for Deposit of Biological Material	8∏ Examiner's 9∏ Other	Statement of Reasons for Allov	vance
		ANNE-MARIE FALK, PH.D PRIMARY EXAMINER	Falk

Application/Control Number: 09/972,741

Art Unit: 1636

EXAMINER'S AMENDMENT

The after final amendment filed on 12/10/03 is entered.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicant's representative Robert Driscoll on 1/7/04.

The application has been amended as follows:

Claim 10. A method of producing a transgenic mouse comprising a homozygous disruption in a magnesium-dependent protein phosphatase gene represented by SEQ ID NO:1, the method comprising:

- (a) introducing a targeting construct capable of disrupting the magnesium-dependent protein phosphatase gene represented by SEQ ID NO:1 into a mouse embryonic stem cell;
- (b) selecting for a mouse embryonic stem cell comprising a disruption in the magnesiumdependent protein phosphatase gene;
 - (c) introducing the embryonic stem cell selected for in step (b) into a blastocyst;
- (d) implanting the resulting blastocyst into a pseudopregnant mouse, wherein said [pseudopregnant] mouse gives birth to a chimeric mouse;
- (e) breeding the chimeric mouse to produce a transgenic mouse comprising a heterozygous disruption in the magnesium-dependent protein phosphatase gene; and

Application/Control Number: 09/972,741

Art Unit: 1636

Page 3

(f) breeding the heterozygous transgenic mouse of step (e) to produce a transgenic mouse

comprising a homozygous disruption in the magnesium-dependent phosphatase gene represented

by SEQ ID NO:1, wherein the transgenic mouse when homozygous for the disruption lacks

production of functional protein encoded by the magnesium-dependent protein phosphatase gene

and the transgenic mouse exhibits, relative to a wild-type mouse, a phenotypic abnormality

selected from the group consisting of a lung abnormality, elevated white blood cell count,

increased anxiety and increased pain threshold.

Claim 19. The transgenic mouse of claim 18, wherein the pulmonary lesions are

consistent with a [with] symptom associated with pneumonia.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Celine X Qian whose telephone number is 703-306-0283. The

examiner can normally be reached on 9:00-5:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Remy Yucel Ph.D. can be reached on 703-305-1998. The fax phone number for the

organization where this application or proceeding is assigned is 703-305-3014.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-0196.

Celine Qian, Ph.D.

ANNE-MARIE FALK, PH.D
PRIMARY EXAMINED